

1/38

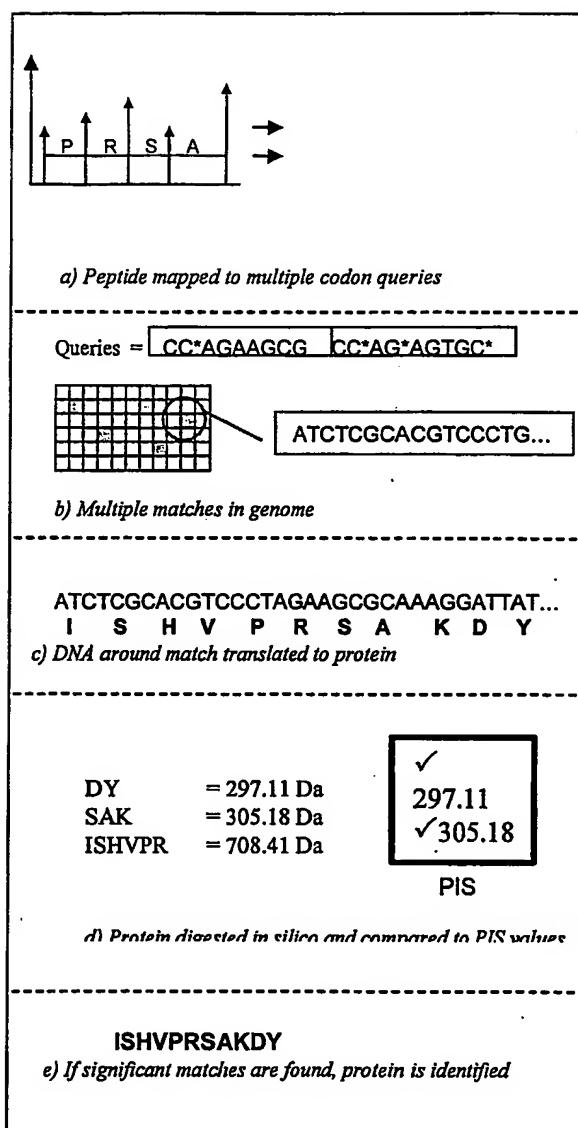
Figure 1

**MHTHGCKYTLYRFHNDC**  
*Original protein in sample*

**MHTHGCK YTILYR FHNDC**  
*After digestion – 3 smaller tryptic fragments*

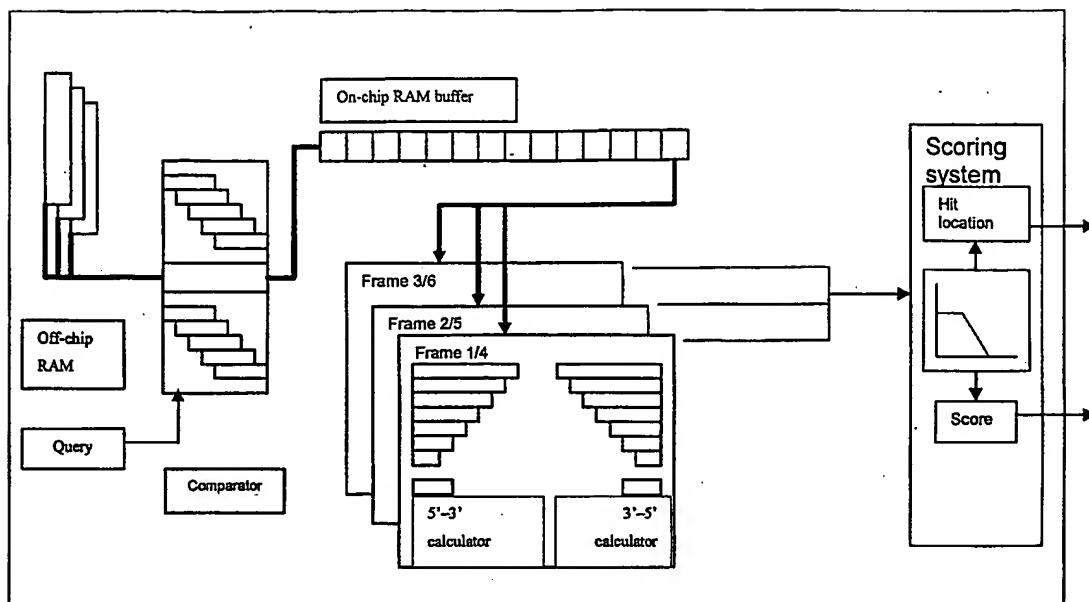
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Figure 2



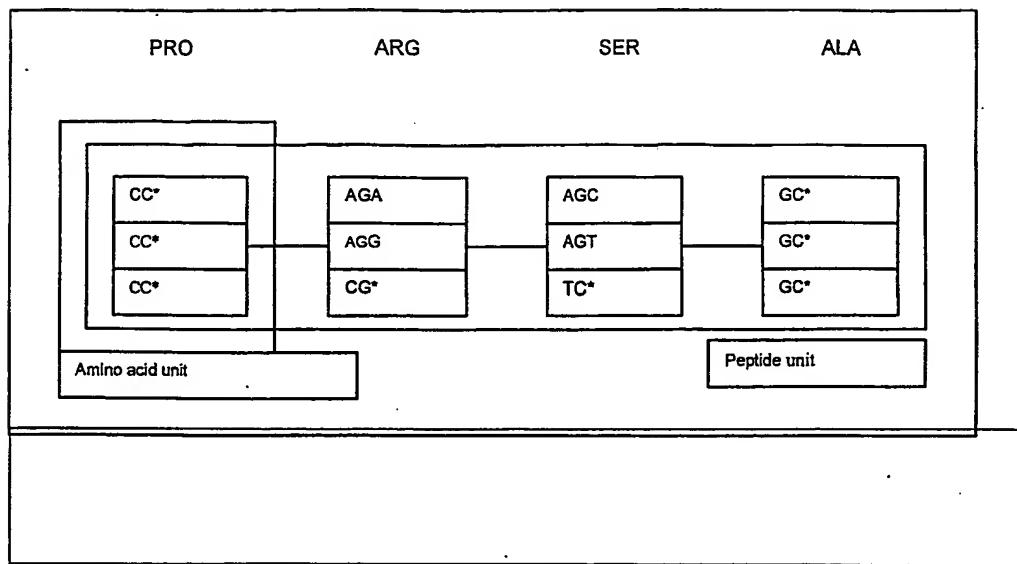
3/38

Figure 3



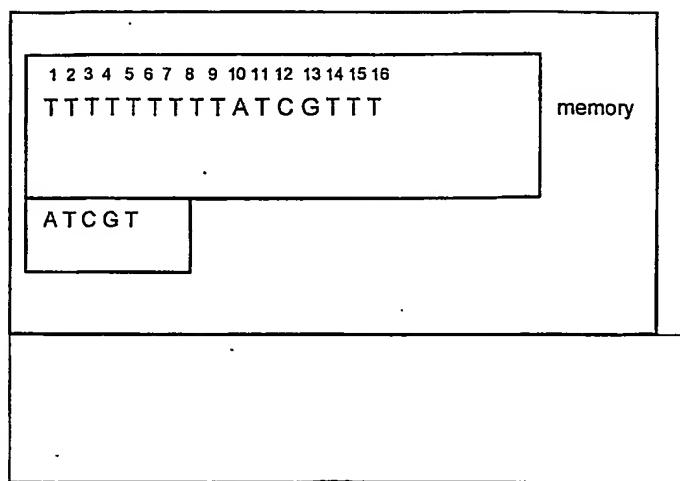
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Figure 4



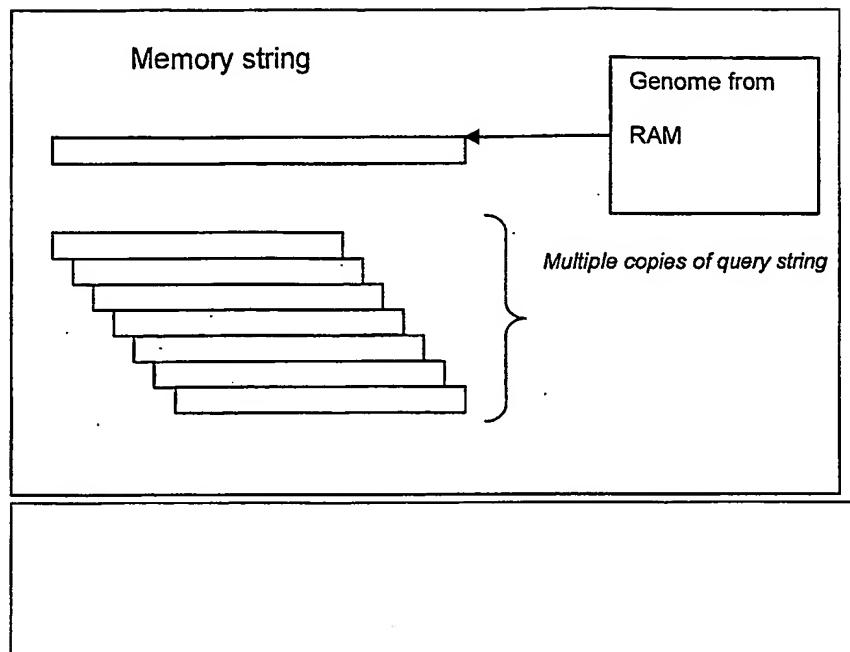
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Figure 5



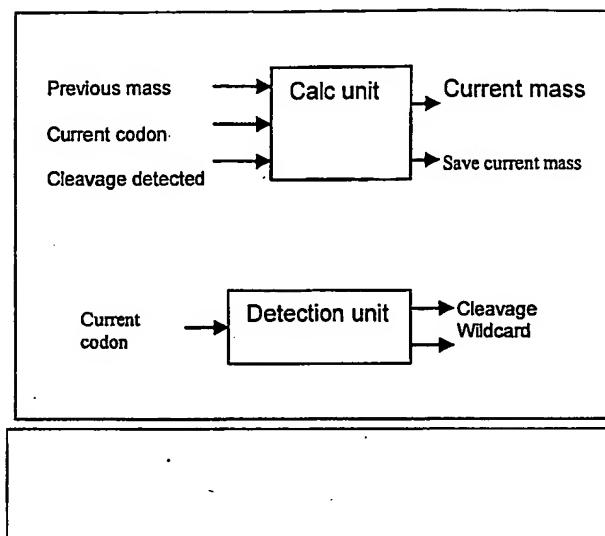
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Figure 6



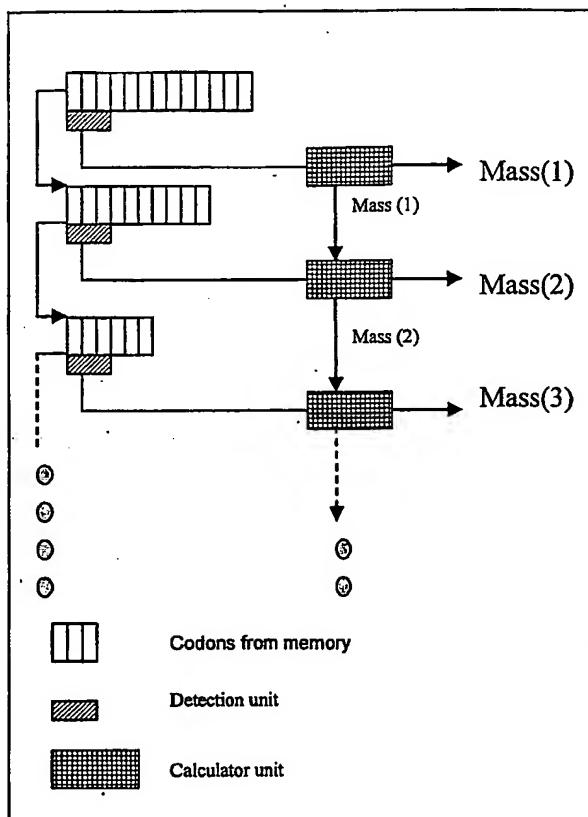
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Figure 7



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Figure 8



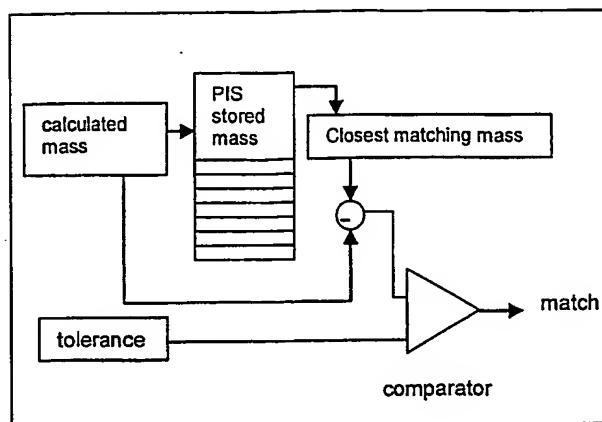
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Figure 9

ATG ACT CCA GAC		Original strand
GTC TGG AGT CAT		Complementary strand
Original	Complement	
ATG	CAT	
ACT	AGT	
CCA	TGG	
GAC	GTC	

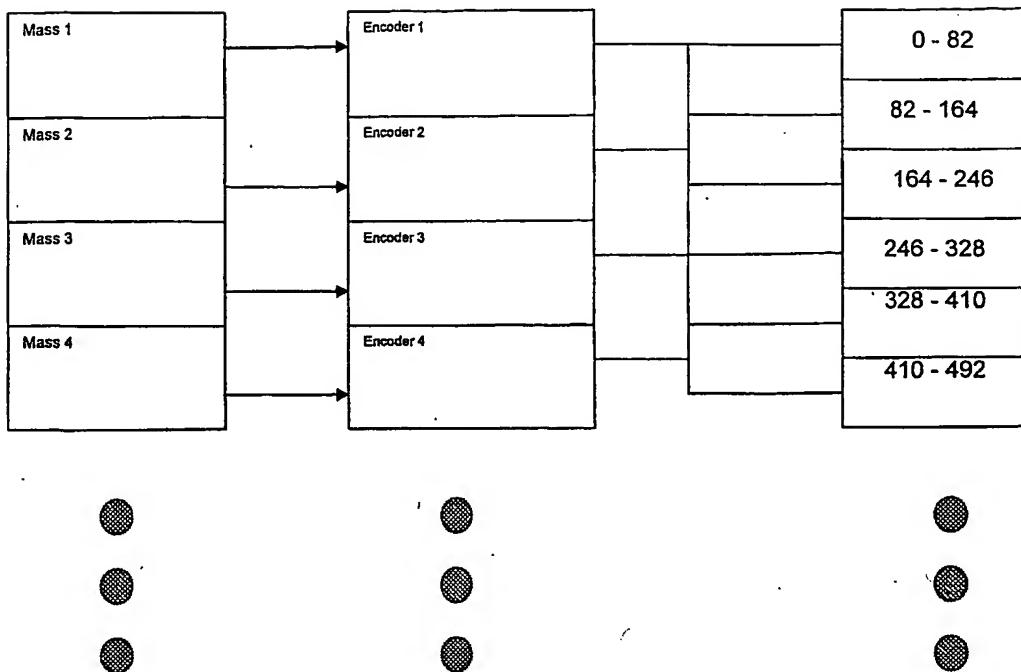
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Figure 10



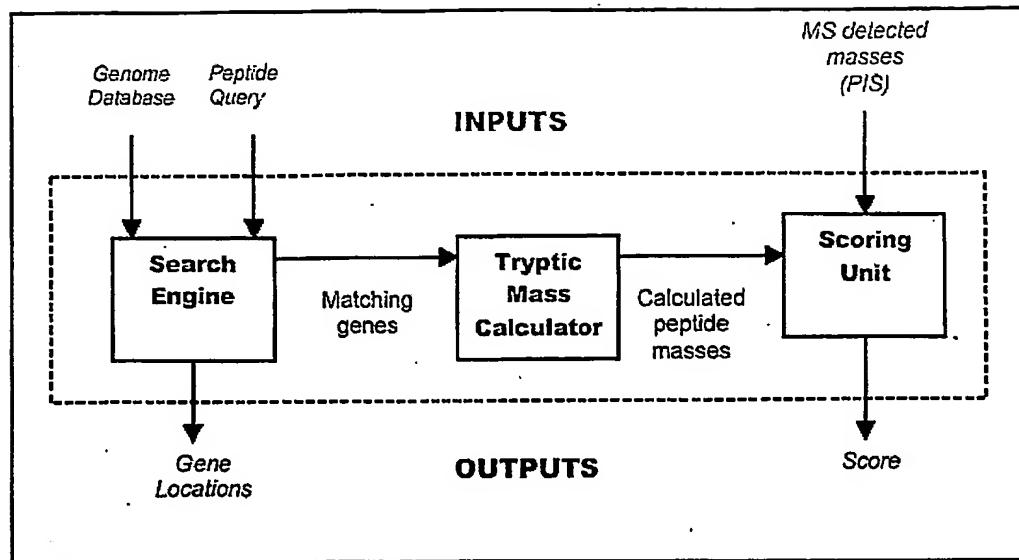
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Figure 11



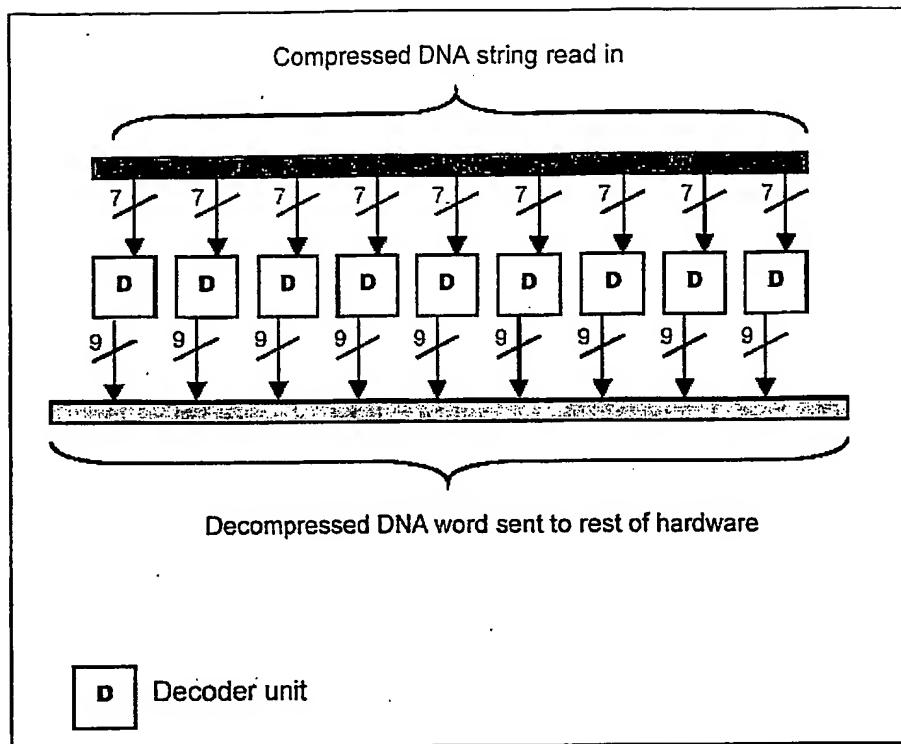
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Figure 12



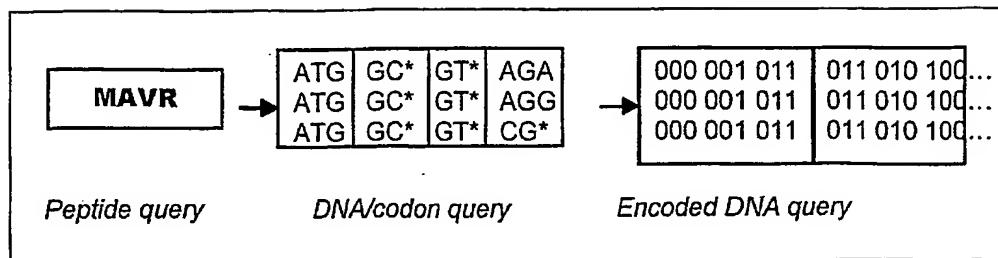
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Figure 13



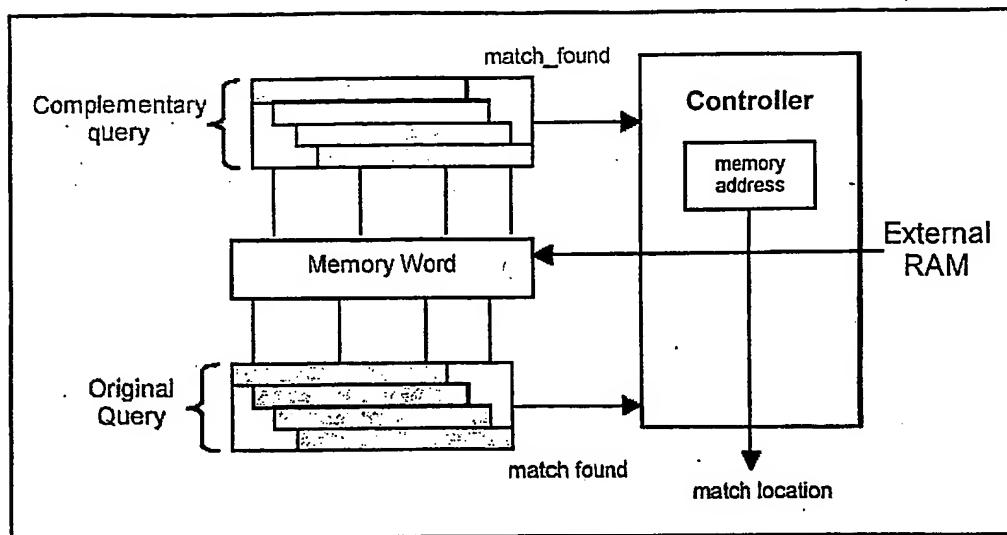
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Figure 14



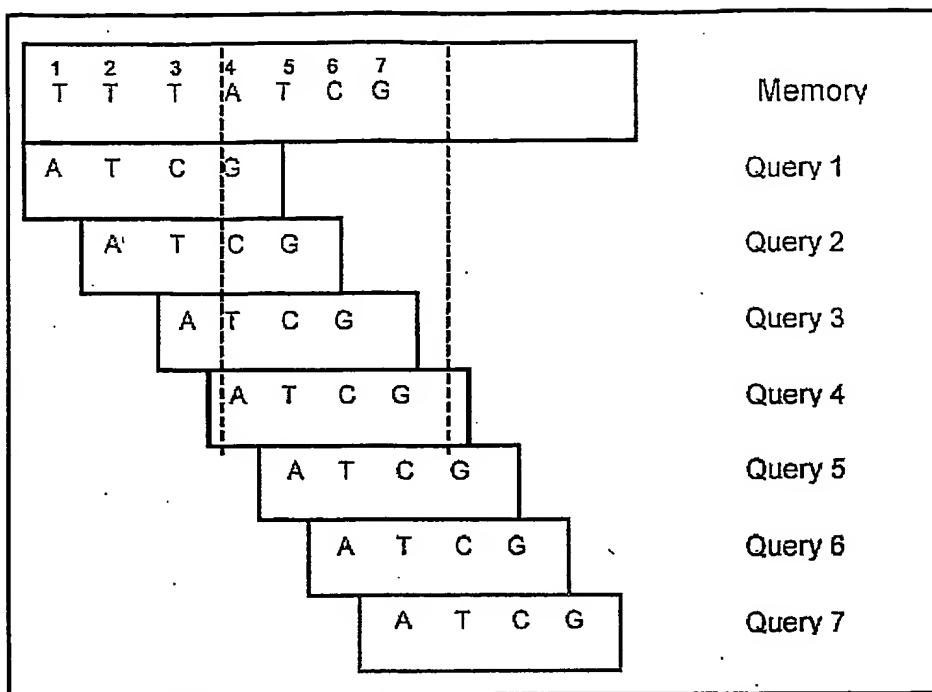
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Figure 15



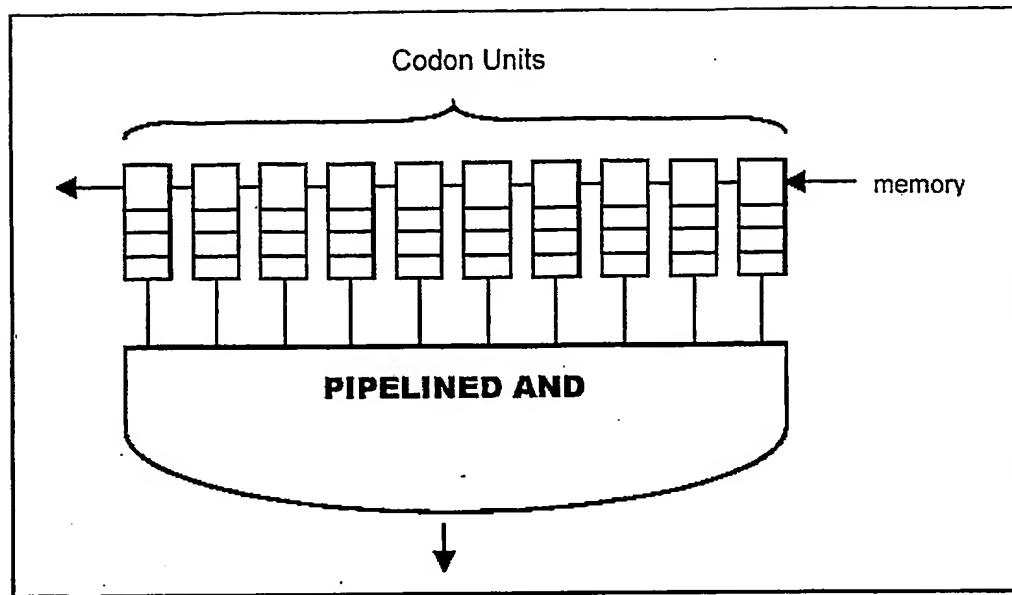
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Figure 16



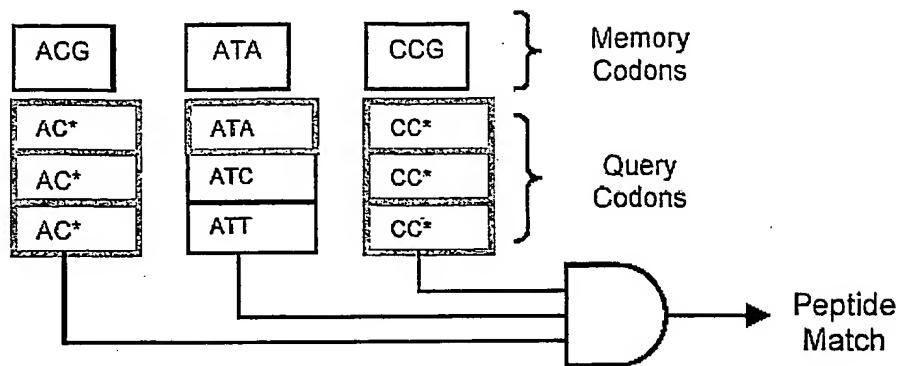
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Figure 17



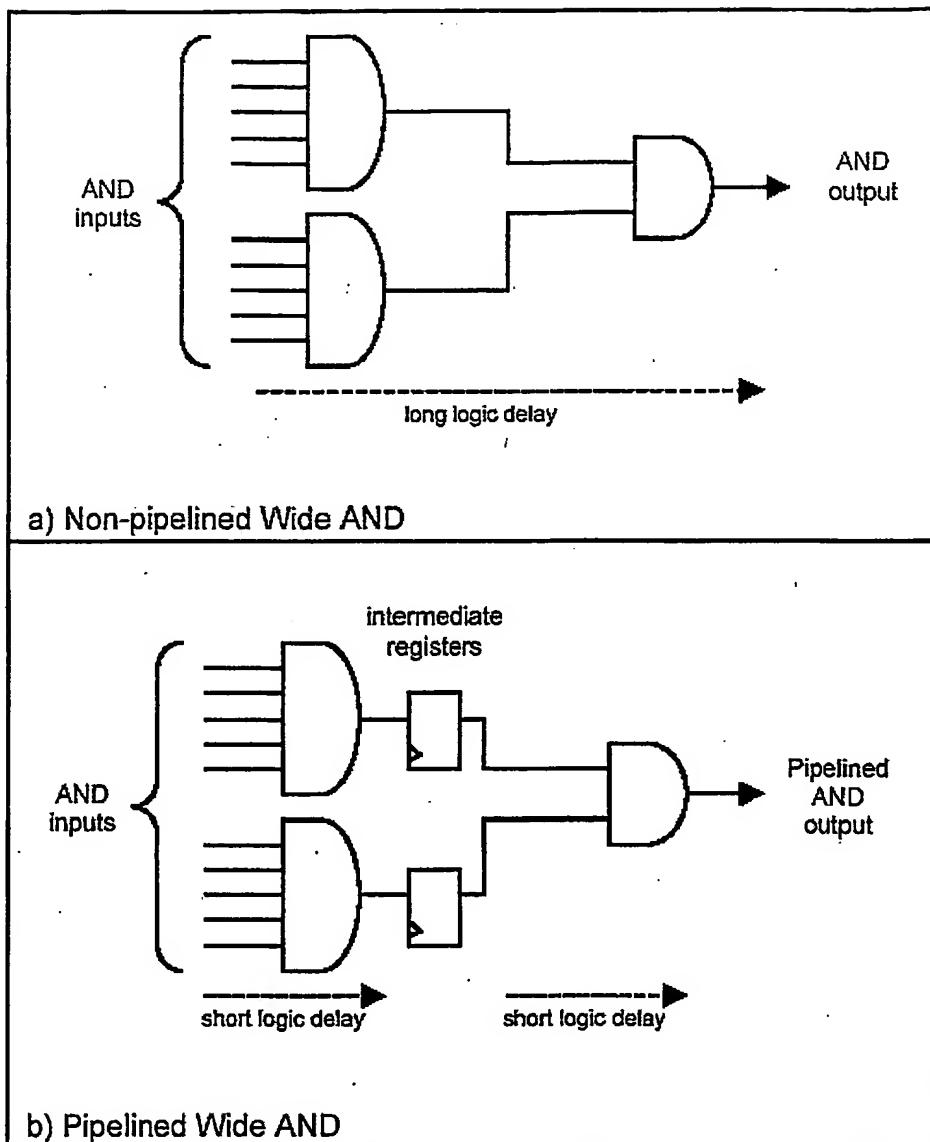
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Figure 18



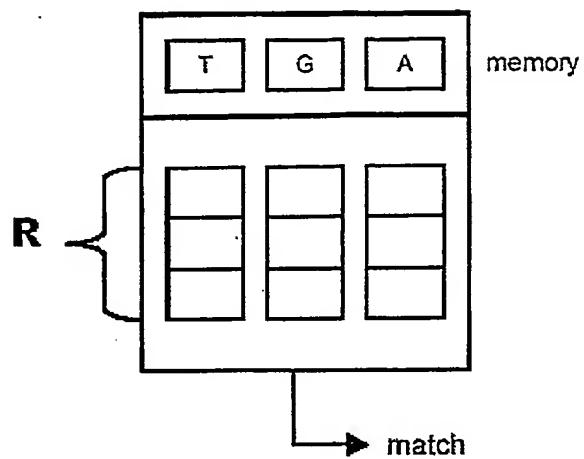
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Figure 19



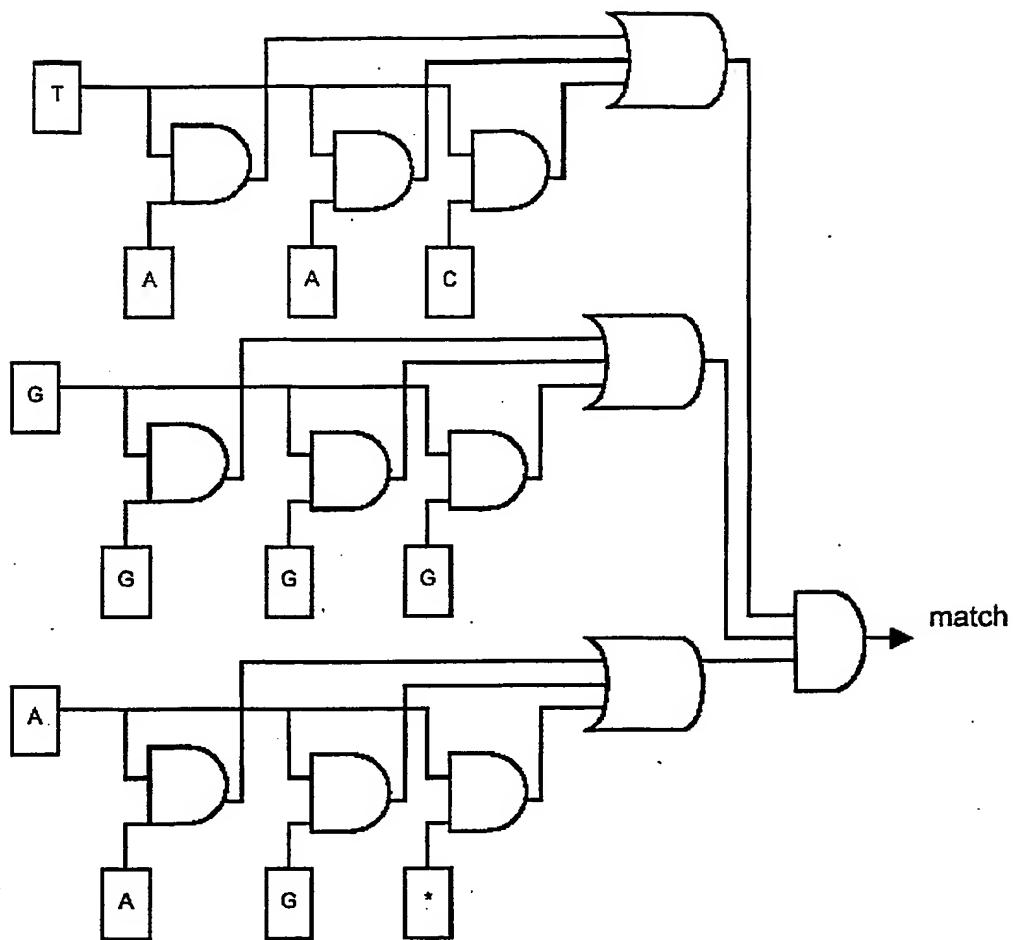
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Figure 20



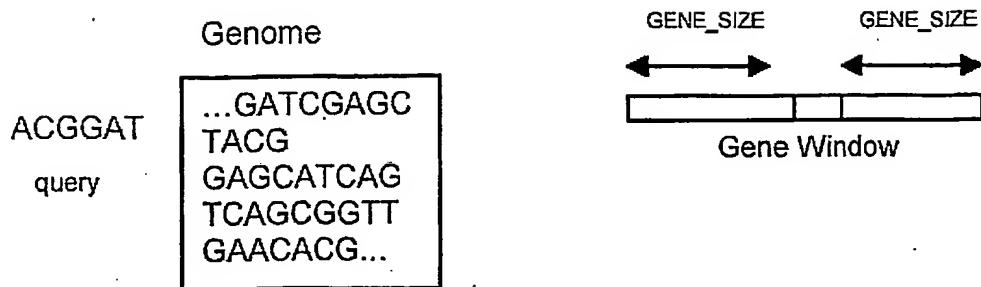
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Figure 21



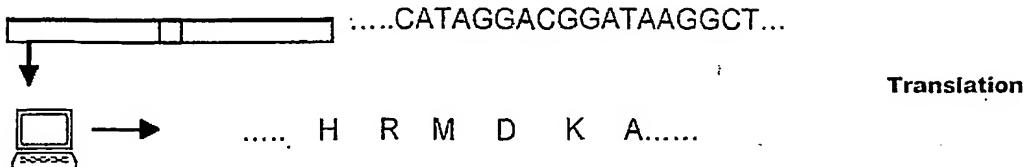
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Figure 22



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Figure 23



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Figure 24

..... H R M D K A .....



...HR  
MDK

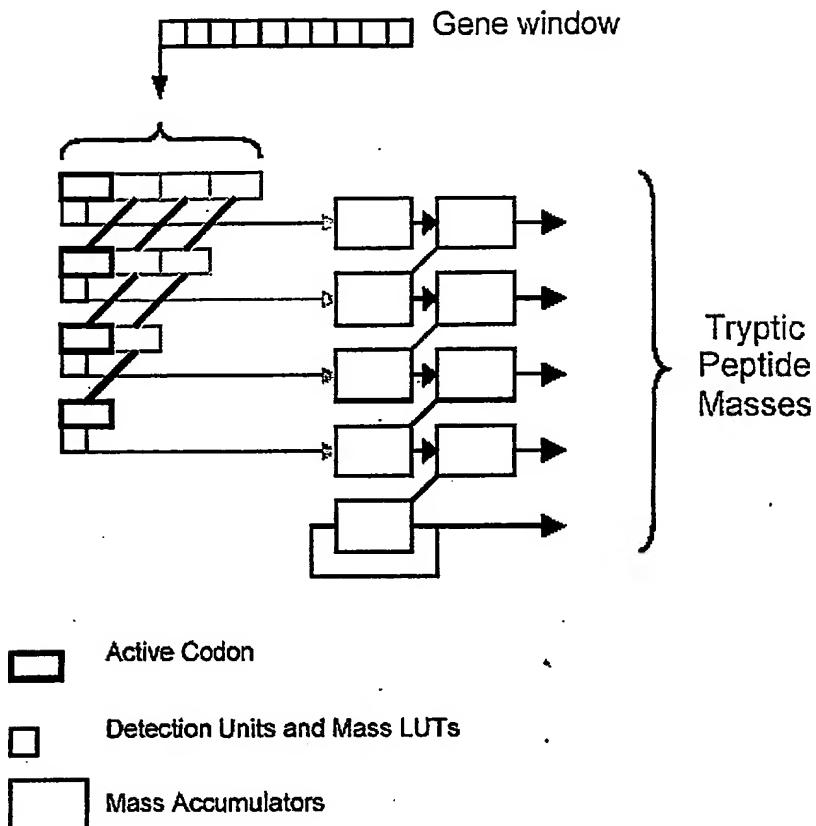
225.32 Da  
127.11 Da

**Digestion**

**Calculation**

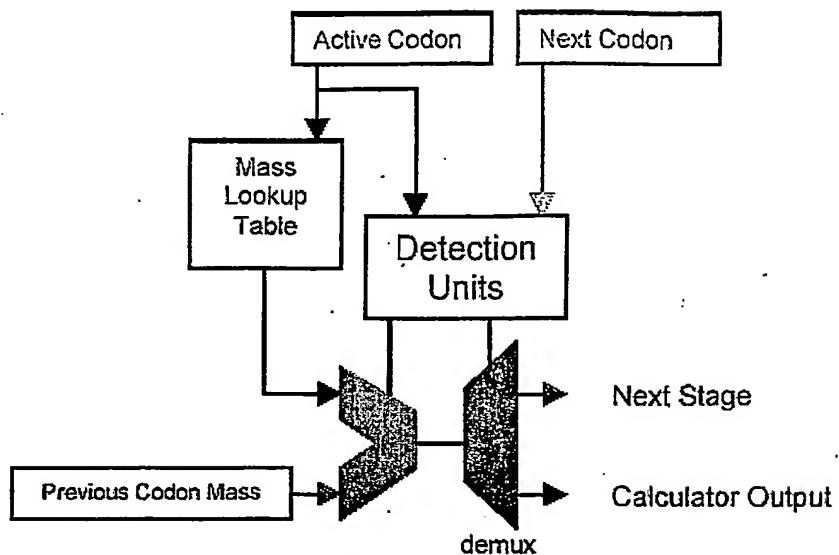
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Figure 25



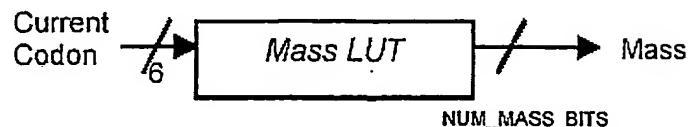
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Figure 26

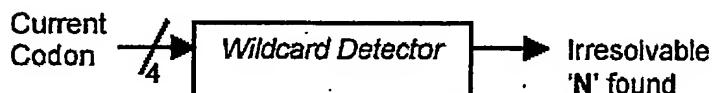
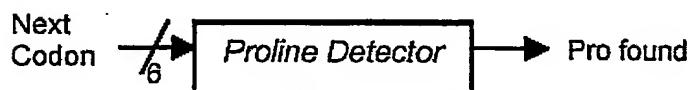
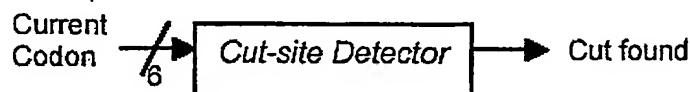


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Figure 27



a) Mass Lookup Table(LUT)



b) Detection Units

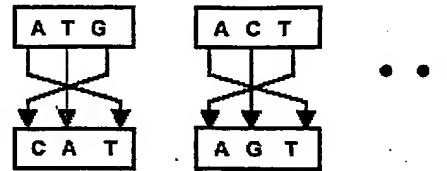
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Figure 28

ATG ACT CCA GAC	Original strand
GTC TGG AGT CAT	Complementary strand

a) DNA Strand and its Complement

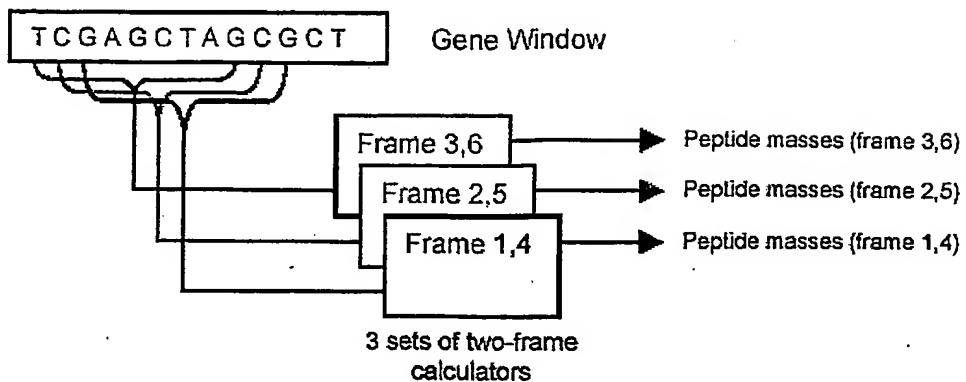
Original	Complement
ATG	CAT
ACT	AGT
CCA	TGG
GAC	GTC



a) Mapping codons to their complements

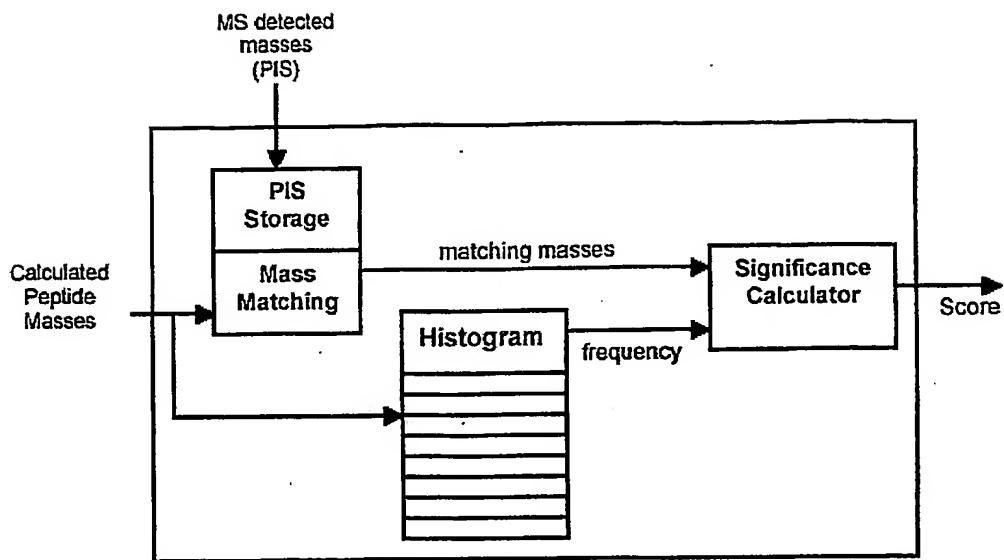
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Figure 29



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Figure 30



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Figure 31

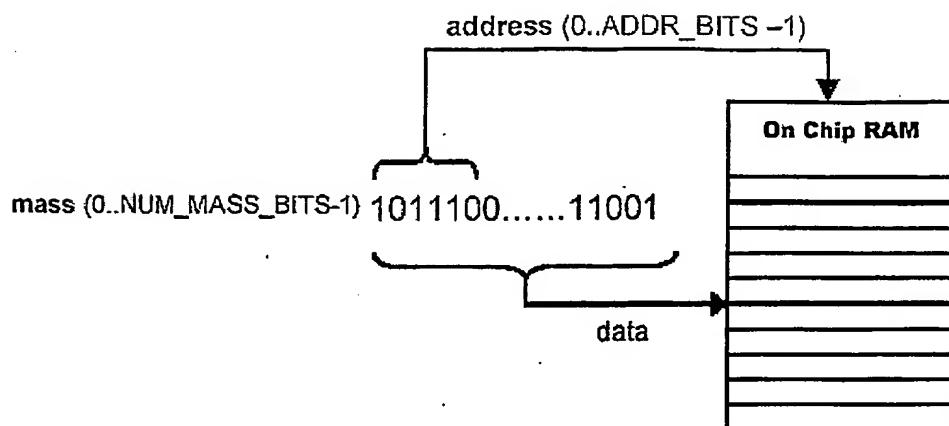
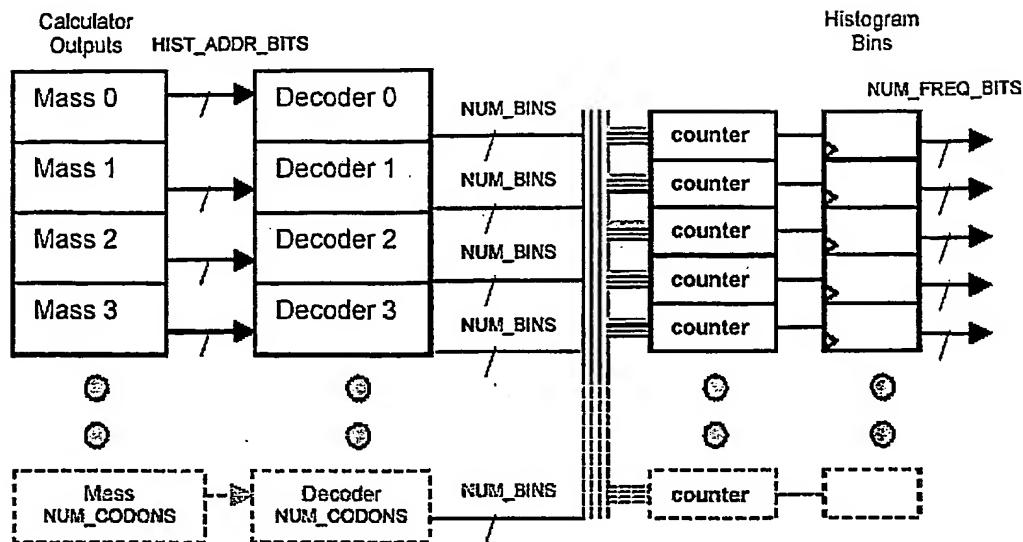
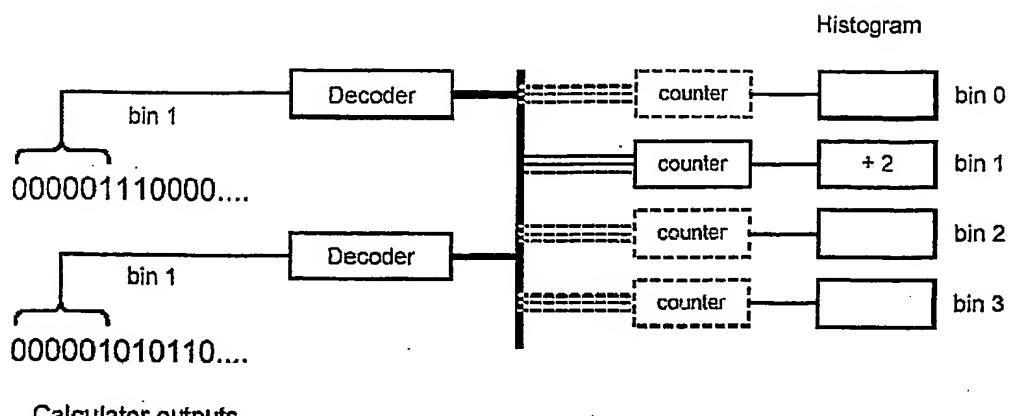


Figure 32



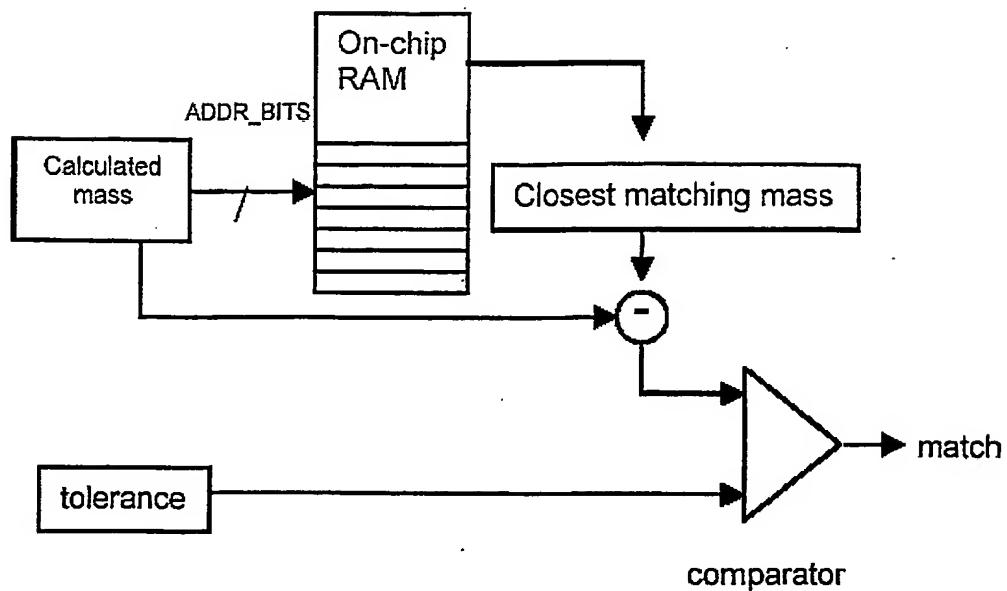
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Figure 33

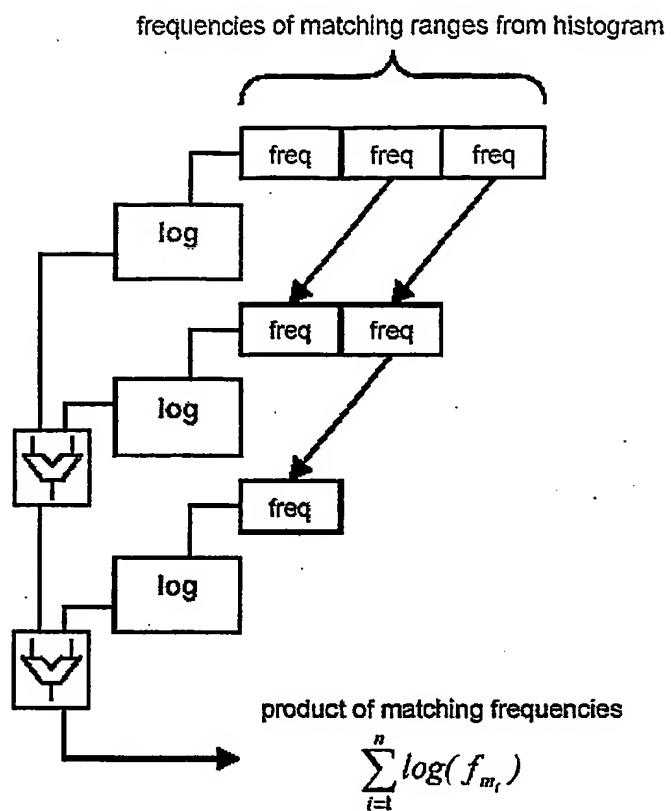


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Figure 34



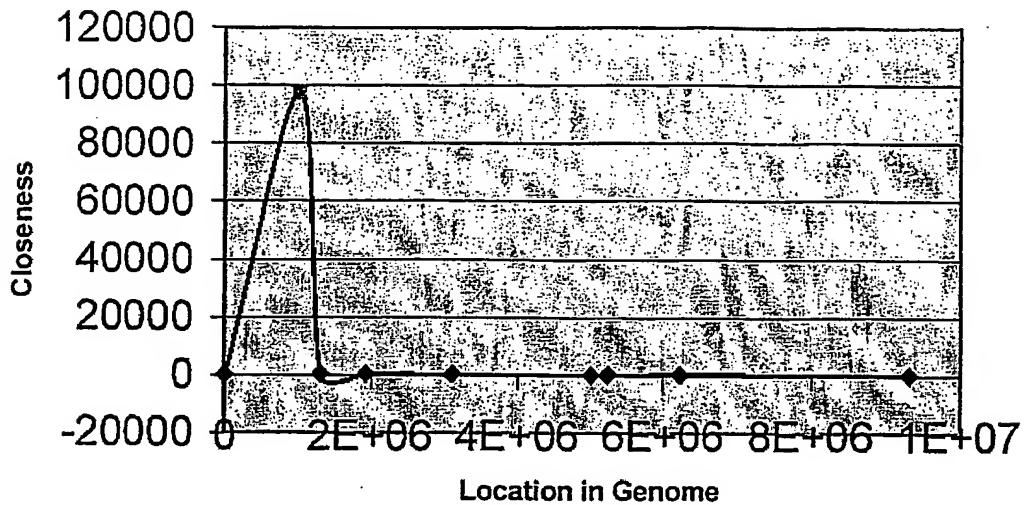
**Figure 35**



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Figure 36

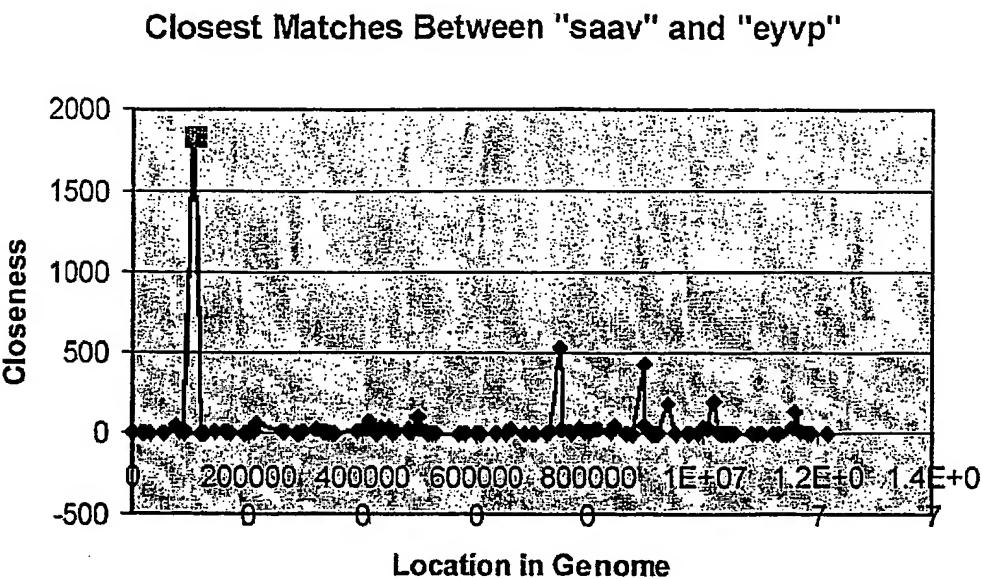
Closest matches between "ilfak" and "eyvpr"



BEST AVAILABLE COPY

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Figure 37



BEST AVAILABLE COPY

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Figure 38

